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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/602,077	- (06/23/2003	Stephen Suffin	10701-011	1225
20583	7590	11/30/2005		EXAMINER	
JONES DA			JONES, DAMERON LEVEST		
222 EAST 41ST ST NEW YORK, NY 10017				ART UNIT	PAPER NUMBER
112 1014, 111 1001				1618	
				DATE MAILED: 11/30/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	10/602,077	SUFFIN, STEPHEN					
Office Action Summary	Examiner	Art Unit					
	D. L. Jones	1618					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be timwill apply and will expire SIX (6) MONTHS from a, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).					
Status							
Responsive to communication(s) filed on <u>08 S</u> This action is FINAL . 2b) ☐ This Since this application is in condition for allowal closed in accordance with the practice under the second	s action is non-final. nce except for formal matters, pro						
Disposition of Claims							
4) Claim(s) 40-42 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 40-42 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or Application Papers	wn from consideration.						
9)☐ The specification is objected to by the Examine	er.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	ts have been received. ts have been received in Application rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4)	ite					
Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal Pa	atent Application (PTO-152)					

Page 2 Application/Control Number: 10/602,077

Art Unit: 1618

ACKNOWLEDGMENTS

1. The Examiner acknowledges receipt of the amendment filed 9/8/05 wherein the

specification was amended; claims 1-39 and 43-49 were canceled; and claims 40-42 were

amended.

Note: Claims 40-42 are pending.

RESPONSE TO APPLICANT'S ARGUMENTS/AMENDMENTS

2. The Applicant's arguments filed 9/8/05 to the rejection of claims 40-45 made by the

Examiner under 35 USC 103, 112, and/or double patenting have been fully considered and

deemed persuasive-in-part for the reasons set forth below.

112 Rejections

The 112 rejections are WITHDRAWN because Applicant has amended the claims to

overcome the rejections.

Double Patenting Rejections

The statutory double patenting rejection has been WITHDRAWN because Applicant has

amended the claims. However, claim 40 is now rejectable under obviousness type double

patenting as set forth below.

103 Rejections

The 103 rejections are WITHDRAWN because Applicant has amended the claims to

overcome the rejection.

NEW GROUNDS OF REJECTION

Double Patenting Rejection

3. The nonstatutory double patenting rejection is based on a judicially created doctrine

grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or

improper timewise extension of the "right to exclude" granted by a patent and to prevent

Application/Control Number: 10/602,077 Page 3

Art Unit: 1618

possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., In re Berg, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); In re Goodman, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); In re Longi, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); In re Van Ornum, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); In re Vogel, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and In re Thorington, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement. Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

4. Claim 40 is provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claim 49 of copending Application No. 10/193,735.

Although the conflicting claims are not identical, they are not patentably distinct from each other because both sets of claims are directed to determining drug effect on a subject wherein a drug is administered to a subject and post administration, neurophysiologic information is obtained and analyzed. The claims differ in that those of 10/193,735 are directed to determining the effect on the central nervous system wherein the instant invention is not limited to drug effect on

Application/Control Number: 10/602,077

Art Unit: 1618

the central nervous system. Hence, a skilled practitioner in the art would recognize that the claims of the instant invention encompass those of 10/193,735.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Note: It is duly noted in Applicant's response filed 9/8/05 that Applicant has requested that the double patenting rejection be withdrawn because claim 49 of 10/193,735 will be canceled upon receipt of the first office action. The double patenting rejection with be withdrawn once claim 49 has been canceled.

112 Rejections

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 6. Claims 40-42 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The claims as written are ambiguous because they do not clearly set forth Applicant's claimed invention. In particular, the phrase 'determining an electrotherapeutic drug effect' is ambiguous because it is unclear what effect Applicant is attempting to determining. Is it an increase or decrease in localization of the drug? Is it an inhibition of a pathway, etc. Hence, it is unclear what effect is being sought. Also, the phrase 'at least one multivariate out measurement' is confusing because the multivariate out measurements are quantitative output measurements collected form combinations of univariate neurophysiologic measurements obtained from various locations in the brain. However, it is unclear which combinations and neurophysiologic measurements are being obtained with the instant invention. In addition, Applicant use of the phrase 'neurophysiologic information' is confusing because

Application/Control Number: 10/602,077 Page 5

Art Unit: 1618

neurophysiologic information is the information obtained from the measurement of electronic or chemical impulses caused by brain function using techniques such as EEG/QEEG, MNRI, fMRI, PET, SPECT, etc. Thus, the claim as written neither sets forth the technique being used to obtain the neurophysiologic information or what information is being sought. As a result, one cannot readily ascertain what is being claimed. Also, the phrase 'abnormal electroencephalogram' is vague and indefinite because it is unclear how Applicant is defining 'abnormal'. Furthermore, the phrase 'comparing said abnormal information with said follow-up information under conditions such that...changed' is ambiguous because it is unclear what conditions Applicant is referring to. In particular, it is unclear whether the conditions that Applicant is referring to are the same, similar, or totally different from those used to obtain the abnormal information.

103 Rejection

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 8. Claims 40-42 are rejected under 35 U.S.C. 103(a) as being unpatentable over Freeman (US Patent No. 4,735,246).

Freeman disclose a method and apparatus for producing enhanced EEG or MEG information related to brain activity in a subject. Control and test traces are recorded before and during an interval in which the brain activity is occurring and decomposed into a series of functions which may be analytic components (see entire documents, especially, abstract; column 2, lines 20-34). The signals are used to provide information about abnormal disease

Application/Control Number: 10/602,077

Page 6

Art Unit: 1618

state and/or information about the distribution and localization of brain activity which is related to a behavioral event (column 4, lines 36-41). Possible applications for the method disclosed by Freeman include diagnosing neurological disorders or a method of using the signal to investigate the effects of drugs on certain mental states. Studies of this type enable one to establish drug dosage and duration parameters and/or pharmacokinetic or drug effects on certain behavioral activity (column 13, lines 15-68; column 14, lines 1-8). Furthermore, brain mapping allows one to determine the localizing and spatial distribution of brain activity associated with certain brain functions (column 14, lines 10-36). Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the invention of Freeman and generate a method of determining a drug effect by (a) obtaining an abnormal EEG prior to the administering of a drug; (b) administer a drug and obtain neurophysiologic information; and (c) comparing the data prior to administering the drug with that obtained after administering the drug because (1) both Freeman and Applicant disclose inventions wherein control and test traces (EEG) are recorded before and during an interval in which brain activity is occurring. (2) Both Applicant and Freeman disclose inventions that are used for diagnosing neurological disorders wherein the method of obtaining the signals may be used to investigate the effects of drugs on certain mental states. (3) Both Applicant and Freeman disclose the use of brain mapping herein information comprising at least one multivarirate outcome measurement is obtained from the subject and compared with data obtained prior to administering the drug.

9. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

Application/Control Number: 10/602,077 Page 7

Art Unit: 1618

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to D. L. Jones whose telephone number is (571) 272-0617. The examiner can normally be reached on Mon.-Fri., 6:45 a.m. - 3:15 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Hartley can be reached on (571) 272-0616. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Primary Examiner
Art Unit 1618

November 28, 2005